

HIV Monoclonal Antibodies

Table 6 RT

MAb ID	Location	WEAU	Sequence	Neutralizing	Immunogen	Species(Isotype)
119 1E8	RT(65-73)	RT(220-228)	KKDSTKWRK	N	r HIV-1 p51/p66 RT bound to nitrocellulose	murine(IgG ₁)
References: [Wu et al.(1993), Gu et al.(1996)]						
NOTES:						
<ul style="list-style-type: none"> • 1E8: Inhibits RT activity, binding site overlaps with two AZT resistance mutations [Wu et al.(1993)] • 1E8: Significantly inhibits DNA polymerase activity of RT by hindering binding of dNTPs – additive or synergistic RT inhibition with nevirapine and delavirdine [Gu et al.(1996)] 						
120 RT7O	RT(231-315)	RT(dis)	DISCONTINUOUS		rRT	murine(IgG ₁)
Donor: B. Ferns and R. Tedder						
References: [Ferns91]						
NOTES:						
<ul style="list-style-type: none"> • RT7O: Conformational epitope located centrally in the protein – inhibited RT enzyme activity and thus may bind close to the active site of the enzyme [Ferns91] • RT7O: UK Medical Research Council AIDS reagent: ARP381 						
121 RT7U	RT(231-315)	RT(dis)	DISCONTINUOUS		rRT	murine
Donor: B. Ferns and R. Tedder						
References: [Ferns91]						
NOTES:						
<ul style="list-style-type: none"> • RT7U: Has a conformational epitope – reacts with p66 and p51 in WB [Ferns91] • RT7U: UK Medical Research Council AIDS reagent: ARP380 						
122 1.152 B3	RT(294-302)	RT(449-457)	PLTEEAELE	N	Purified cloned RT	murine(IgG ₁)
References: [Orvell91]						
NOTES:						
<ul style="list-style-type: none"> • 1.152 B3: Weakly positive by immunofluorescence – binding inhibits RT enzymatic activity [Orvell91] 						
123 1.158 E2	RT(294-302)	RT(449-457)	PLTEEAELE	N	Purified cloned RT	murine(IgG ₁)
References: [Orvell91]						
NOTES:						
<ul style="list-style-type: none"> • 1.158 E2: Negative by immunofluorescence – binding inhibits RT enzymatic activity [Orvell91] 						
124 31D6	RT(294-319)	RT(449-473)	PLTEEAELELAENRE- ILKEPVHGVY	N		murine(IgG ₁)
References: [Szilvay92]						
NOTES:						
<ul style="list-style-type: none"> • 31D6: Strong inhibitor of RT, > 50% inhibition [Szilvay92] 						

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125 31G8	RT(294-319)	RT(449-473)	PLTEEAEELELAENRE-ILKEPVHGVY	N		murine(IgG ₁)
References: [Szilvay92] NOTES: <ul style="list-style-type: none"> ● 31G8: Weak inhibitor of RT, reactive by immunofluorescence [Szilvay92] 						
126 32E7	RT(294-319)	RT(449-473)	PLTEEAEELELAENRE-ILKEPVHGVY	N		murine(IgG ₁)
References: [Szilvay92] NOTES: <ul style="list-style-type: none"> ● 32E7: Weak inhibitor of RT, reactive by immunofluorescence [Szilvay92] 						
127 33D5	RT(294-319)	RT(449-473)	PLTEEAEELELAENRE-ILKEPVHGVY	N		murine(IgG ₁)
References: [Szilvay92] NOTES: <ul style="list-style-type: none"> ● 33D5: Weak inhibitor of RT, reactive by immunofluorescence [Szilvay92] 						
128 5B2	RT(294-319)	RT(449-473)	PLTEEAEELELAENRE-ILKEPVHGVY	N		murine(IgG ₁)
References: [Szilvay92] NOTES: <ul style="list-style-type: none"> ● 5B2: Weak inhibitor of RT, reactive by immunofluorescence [Szilvay92] ● 5B2: UK Medical Research Council AIDS reagent: ARP3018 						
129 polyclonal	RT(295-304 PV22)	RT(450-459)	LTEEAEELELA	N	HIV-1 infection	human(IgG)
References: [Grimison95]						
130 1.153 G10	RT(350-354)	RT(505-509)	KTGKY	N	Purified cloned RT	murine(IgG ₁)
References: [Orvell91]						
131 1C12B1	RT(431-521)	RT(dis)	DISCONTINUOUS		rRT	murine
References: [Ferns91] NOTES: <ul style="list-style-type: none"> ● 1C12B1: Recognized both p66 and p51 in Western blot, binds to C terminus [Ferns91] ● 1C12B1: UK Medical Research Council AIDS reagent: ARP384 						
132 1.160 B3	RT(442-450)	RT(597-605)	VDGAANRET	N	Purified cloned RT	murine(IgG ₁)
References: [Orvell91]						
133 polyclonal	RT(521-531 PV22)	RT(676-686)	IIEQLIKKEKV	N	HIV-1 infection	human(IgG)
References: [Grimison95]						
134 RTMAb8	RT(532-539)	RT(531-538)	TTESIVIW	N	r RT	murine(IgG)
References: [Tisdale88, Ferns91] NOTES: <ul style="list-style-type: none"> ● RTMAb8: Estimate of amino acids in binding region based on numbering of HXB2 [Ferns91] 						

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MAb ID	Location	WEAU	Sequence	Neutralizing	Immunogen	Species(Isotype)
135	RT6H RT(540-543)	RT(539-542)	GKIP	N	r RT	murine(IgG)
	References: [Ferns91]					
	NOTES:					
	• RT6H: Estimate of amino acids in binding region based on numbering of HXB2 [Ferns91]					
136	1D4A3 RT(540-543)	RT(539-542)	GKIP	N	r RT	murine(IgG)
	References: [Ferns91]					
	NOTES:					
	• 1D4A3: Estimate of amino acids in binding regions based on numbering of HXB2 [Ferns91]					
137	C2003 RT(703-716 BH10)	RT(691-704)	VPAHKGIGGNEQVD	N	Peptide	rabbit(IgG)
	References: [DeVico91]					
	NOTES:					
	• C2003: Inhibits polymerase activity from a variety of retroviruses – RT protected from inhibition by preincubation with template primer [DeVico91]					